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real-time information collection supervising and allocating system and method for vehicle



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A real-time information collection supervising and allocating system and method for vehicle. The identification, fare etc information on the contact and/or contactless IC card will be read and written by the IC card reader. Signal converter will convert it to digital signal. Together with (or without) the video and/or audio signal caught by camera in the vehicle, plus the location information collected by GPS system, via information transmission device, being sent to computer(s) in the information center through telecom network. The information center will transmit audio, video and/or text to allocate the vehicle. Who, where, when, what etc information concerning vehicle will be collected. The audio and/or video information can be recorded and tracked in the information center or through internet or intranet. It will bring good effect on transportation, anti-theft and anti-terrorism, criminal hunting, battling etc fields. (SCROLL BELOW FOR THE PATENT...)

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Inventor: Bo LANG

Class: 701213000 (USPTO), (Intl Class)

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TECHNICAL FIELD

[0001] This invention relates to a real-time information collection supervising method for vehicle.

BACKGROUND ART

[0002] According to the prior arts, vehicle is equipped with GPS technology for GPS only solves the problem "where" the vehicle is located. But it does not so what etc problems to provide sufficient information for an efficient vehicle subject to deploying.

[0003] A system has been proposed wherein navigation data is updated with data including turns, e.g., as disclosed in U.S. Pat. No. 6,633,814. However, this system more precise positioning means.

[0004] Nowadays in many cities, IC cards and card readers are being applied on public transportation equipment. Some are for the fare charging purpose. Some are for the authorization of the riders. But the information of the cards and the card-holders in full usage, i.e., the card being read once means one person is on board of the vehicle, while two persons. The rest may be deduced by analogy. The information on the number of passengers can be collected and sent to the traffic control center for a better purpose.

SUMMARY OF THE INVENTION

[0005] It is therefore an object of this invention to provide a real-time information collection supervising and allocating system and method for vehicle to equip the information center with the vehicle in order to supervise and allocate the vehicle.

[0006] The present invention in one embodiment provides a real-time information collection supervising and allocating system, comprising a wireless telecom network, wherein the system includes a contact and/or contactless IC card and card reader & writer on vehicle. It can also include a signal converter, information and data reception and transmission device, computer servers and memory device. The said signal converter is used to convert the information read by IC card into digital or non-digital signal. The said information and data reception and transmission device are used to receive the above-mentioned digital or non-digital signals from the vehicle and transmit the same to the computer servers in the information center via wireless telecom network and being recorded into memory device.

[0007] In a further embodiment of the present invention, the system also includes equipment to collect video and/or audio signals on the spot inside of the vehicle. The collected video and/or audio signals will be transmitted to the computer servers in the information center via information and data reception and transmission device through wireless telecom network and being recorded into memory device.

[0008] The information center also has allocating information transmission device to transmit video and/or text instructions to drivers through wireless telecom network to a vehicle.

[0009] The present invention also includes a method comprising the steps of transmitting identification and fare etc information inside the vehicle through wireless telecom network, wherein identification and fare etc information inside the vehicle, contactless IC card in the vehicle end, are read and written by IC card reader & writer on vehicle.

above-mentioned information is converted by signal converter into digital or n information and data reception and transmission device will transmit the above digital signals to the computer servers in the information center via wireless te recorded into memory device.

[0010] In a further embodiment of the present invention, the method comprising video and/or audio information by CCTV monitoring equipment and then trans servers in the information center via the information & data reception & trans wireless telecom network and being recorded into memory device.

[0011] The information center will transmit audio, video and/or text instructions to the vehicle through 3G or other wireless telecom network.

[0012] As a result, the information center can thus conveniently and accurately what etc information on the vehicle besides of the "where" information. It's mainly to allocate the vehicle. It will bring good effect on transportation resource deployment, terrorism, criminal hunting, battling etc fields.

BRIEF DESCRIPTION OF THE DRAWINGS

[0013] FIG. 1 Shows the first embodiment of the present invention.

[0014] FIG. 2 Shows the second embodiment of the present invention.

[0015] FIG. 3 Shows the third embodiment of the present invention.

[0016] FIG. 4 Shows the forth embodiment of the present invention.

[0017] FIG. 5 Shows the fifth embodiment of the present invention.

[0018] FIG. 6 Shows the sixth embodiment of the present invention.

[0019] FIG. 7 Shows the seventh embodiment of the present invention.

[0020] FIG. 8 Shows the eighth embodiment of the present invention.

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